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strata consisted only of comparatively shallow enclaves, the main oil basin, which was deeper, was said to be an underground oil lake which was estimated to stretch over hundreds of square kilometers, although its exact size had not yet been determined.

5. Branch pipe lines 15 to 20 cm in diameter connected the individual production sites with several collecting pipe lines which in turn led to three main pipe lines about 50 cm in diameter. A long-distance twin pipe line led from these main pipe lines to the Tuymazy Refinery, a second one to the Ufa refineries and a third twin pipe line to the Urusu Refinery. The large long-distance line to Ufa was put into operation in mid-1949.
6. The crude oils produced at Oktyabrsk were said to be of an especially high quality. The Tuymazy oil share in light fractions is said to be up to 70 percent. Some drilling sites reportedly produced a type of oil which could be used immediately as Diesel or gas oil after simple filtration without distillation. The daily production capacity of the entire district was 11,000 tons for 1946, 12,500 tons for 1947, 22,000 tons for 1948, and 25,000 to 26,000 tons for 1949. The target production allegedly was 35,000 tons daily.
7. Natural gas also came from the free-flowing wells. The natural gas, which was responsible for pressure of most free-flowing wells, was not used in 1949, and it was burned off at the production sites. However, a natural gas pipe line to Ufa was said to be planned.
8. A large tank depot with 10 to 12 tanks, 15 to 20 meters both in diameter and in height, was east of the secondary railroad station of Oktyabrsk on the branch line to Tuymazy. The depot, which was connected with the Narishyev oil field by pipe lines, had many spur tracks and a corresponding number of filling stations. In the summer of 1949 a new refinery was allegedly under construction at this depot. Another tank depot was southwest of Narishyev and of the Oktyabrsk railroad station. It had 16 tanks spread over an area of 200x300 meters. Next to this tank depot was an oil filtering installation which in 1948 was expanded into a gasoline separating (top) installation. This in turn was to be expanded into a large refinery which, allegedly nearing completion in November 1949, was scheduled to start production in the winter of 1949/1950. This tank depot and the installations connected with it had pipe lines to the Narishyev oil field.
9. A large refinery was near the Urusu railroad station. This refinery, which was in operation in May 1945, covered an area of about 500x600 meters. At the refinery were about 20 to 30 large crude oil tanks, 10 to 15 meters both in diameter and in height. For finished products there were six to eight tanks, 10 meters in diameter and about 8 meters high. These were silver-gray in color, thus indicating that they were gasoline or Diesel oil tanks. The Urusu refinery had many spur tracks and a large filling station. Details on the equipment are not available, but several distilling columns each with five or six boilers were definitely observed. The main products were probably gasoline, kerosene, and gas oil. No cracking installation was observed.
10. There was an asphalt factory on the outskirts of Oktyabrsk. This factory, whose daily capacity was said to be almost 600 tons, processed for road-making the residue of the district's crude oils, most of which had an asphalt base.
11. Between the Oktyabrsk and Urusu railroad stations, which are 14 to 15 km apart, was an old power plant, which was shut down, a transformer station, supplied with power from Ufa, and a new power plant still under construction in 1948/1949.

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The new power plant had several large turbines and Diesel units operated by oil firing. From 7 to 12 tanks were established for the operation of the power-generating units at the power plant. The transformer and power station supplied four or five pump works which, together with intermediary pump stations, carried out the production at the oil fields and conducted the crude oil through the piping system. Some of the production sites operated by pumps were not equipped with electric pumps but were operated on steam pressure. In such cases there were installations equipped for oil firing in the pump stations of the production sites.

12. A new highway led from Urusu to Tuymazy via Oktyabrsk. Additional roads were being built from Oktyabrsk to Potapovo and from Tuymazy to Serafimov. A railroad branch line went from Urusu to Oktyabrsk. Only part of the scheduled Oktyabrsk-Tuymazy railroad line had been completed by November 1949.
13. In the entire Tuymazy-Oktyabrsk-Urusu District 60,000 to 65,000 workmen were said to be employed in three 8-hour shifts. **

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* Comment. For layout of the district see the sketch in Annex 1. Moskovska, Serafimov. and Potapovo are not indicated on available maps. 50X1-HUM

** Comment. the Tuymazy Refinery, supplied by the Oktyabrsk Oil District, had a total annual capacity of 1.1 million tons. It was a modern refinery with a new cracking installation. U50X1-HUM

Ufa had four refineries with a total annual processing capacity of 3.7 million tons and an annual cracking capacity of 2.02 million tons. These refineries had modern catalytic cracking and isooctane installations and special installations for high-grade fuels and aviation gasoline.

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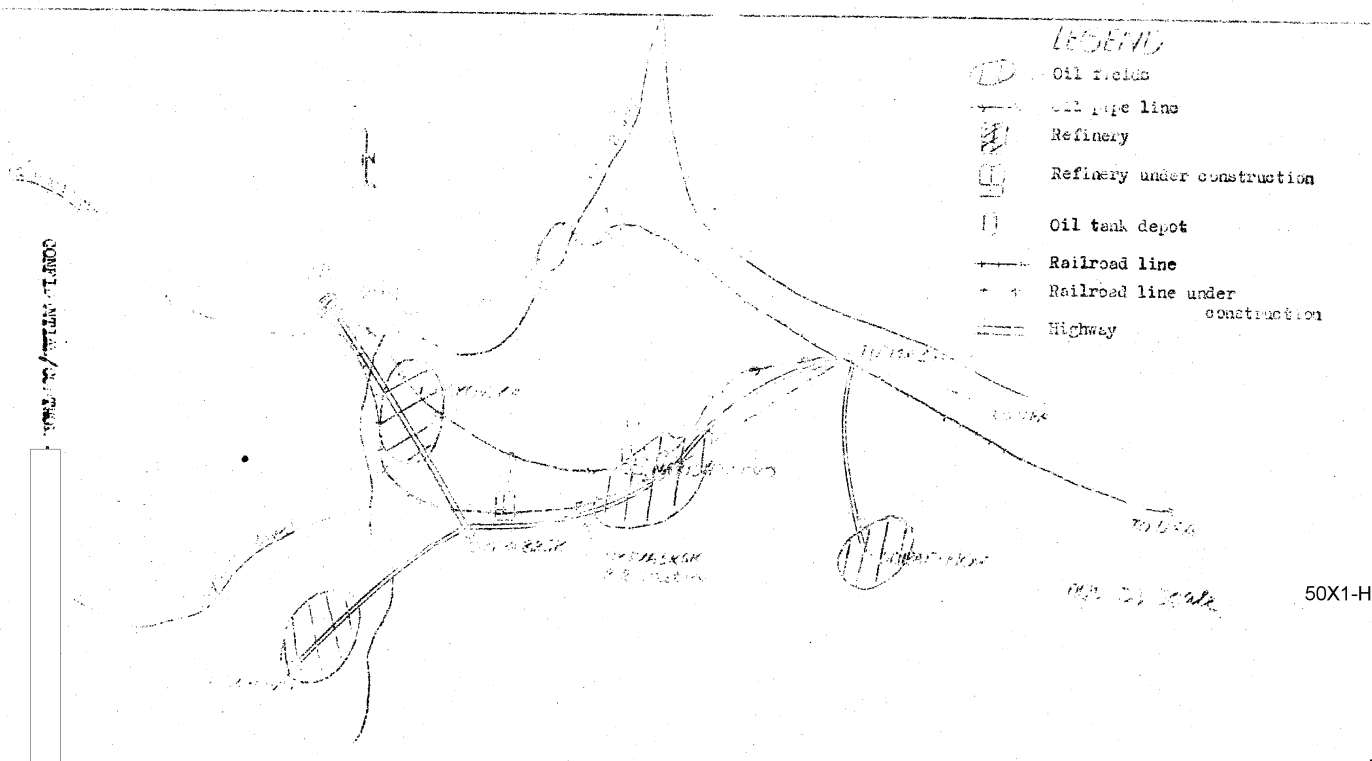
1 Annex: sketch on ditto

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Oil Fields in the Otkrybsk District and the Otkrybsk and Trusu Refineries (Bashkir ASSR)



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